

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising a contiguous stretch of at least about 60 nucleotides first disclosed in at least one of SEQ ID NOS: 1-1,209.

2. An isolated polynucleotide according to Claim 1, wherein said polynucleotide sequence comprises at least one of SEQ ID NOS: 1-1,209.

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3. An *in vitro* process for producing an isolated polynucleotide incorporating a sequence capable of hybridizing to a sequence first disclosed in one of SEQ ID NOS: 1-1,209, comprising the steps of:

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- a) obtaining a polynucleotide template encoding a sequence capable of hybridizing to an GTS of SEQ ID NOS: 1-1,209;
- b) contacting said template with a polynucleotide probe comprising at least about 25 contiguous bases first disclosed in SEQ ID NOS: 1-1,209;
- c) processing the combined probe and template to allow the specific detection of the combined probe and template; and
- d) isolating a clone encoding said template.

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4. The process of Claim 3 wherein said template is mammalian cDNA.

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5. The process of Claim 3 wherein said template is mammalian genomic DNA.

6. A process according to Claim 4 wherein said template is of human origin.

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7. A process for identifying novel polynucleotide

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sequences comprising the steps of:

- a) retrieving a computer readable representation of a polynucleotide sequence first disclosed in at least one of SEQ ID NOS: 1-1,209, or an amino acid sequence encoded thereby, from a computer addressable form of electronic data storage medium;
- b) retrieving a computer readable representation of a test polynucleotide or polypeptide sequence from a computer addressable form of electronic data storage medium; and
- c) comparing the sequence of said test polynucleotide or polypeptide sequence to a sequence first disclosed in at least one of SEQ ID NOS: 1-1,209, or an amino acid sequence encoded thereby.

8. An isolated murine embryonic stem cell line comprising an engineered retroviral gene trap vector in at least one gene comprising a polynucleotide sequence first disclosed in one of SEQ ID NOS: 1-1,209.

9. The use of an mutated mouse comprising a gene trapped allele from Claim 8, to produce a high affinity antibody against a human protein ortholog or homolog of any one of SEQ ID NOS:1-1,209.